

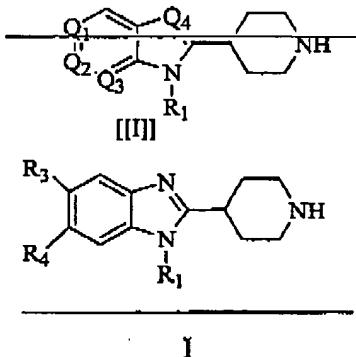
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Serial No. 10/071, 978

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to August 18, 2005 Action

Listing of the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1.(Currently amended) A compound having the formula I:



wherein:

~~Q₄ is CR₃;~~

~~Q₂ is CR₄;~~

~~Q₃ is CH;~~

~~Q₄ is N;~~

 R₁ is alkyl, aryl, arylalkyl, heteroaryl; heteroarylalkyl, heterocycloalkyl, arylsulfonyl, aryloxycarbonyl, alkoxyalkoxyalkyl, alkyl-S-R₇, alkyl-NH-C(=O)-R₈ or -R₉-X-R₁₀-(R₁₁)H;

 wherein each of the alkyl, aryl, arylalkyl heteroaryl, heteroarylalkyl, heterocycloalkyl, arylsulfonyl, aryloxycarbonyl and alkoxyalkoxyalkyl moieties in each of the foregoing R₁ groups can be optionally substituted with up to 5 groups independently selected from the group consisting of C₁-C₆ alkyl, OH, hydroxyalkyl, -C(=O)-R₅[[;]], CN, aryl, alkoxycarbonyl, alkylaryl, arylalkyl, heteroaryl, S-heteroaryl optionally substituted with halogen, heteroarylalkyl optionally substituted with halogen, heterocycloalkyl optionally substituted with amino, NO₂, halogen, monohaloalkyl, dihaloalkyl, trihaloalkyl, perhaloaryl, perhaloalkylaryl, alkyl-NR₁₅R₁₆ and NR₁₅R₁₆;

 or one of said alkyl, aryl, arylalkyl heteroaryl, heteroarylalkyl, heterocycloalkyl, arylsulfonyl, aryloxycarbonyl or alkoxyalkoxyalkyl moieties of one of said R₁ groups can be attached to a structurecompound of Formula I at position R₁ thereof;

R₃ and R₄ are independently each halogen, C₁-C₆ alkyl, trihaloalkyl, alkoxycarbonyl, alkoxy, NR₁₅R₁₆, [[and]] or NO₂, wherein said C₁-C₆ alkyl, alkoxycarbonyl, and

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alkoxy groups can each be optionally substituted with NR₁₅R₁₆;

R₅ is H, -NHNHR₆, -NHN=CH-R₆, heteroaryl[[.]] or heterocycloalkyl, wherein said heteroaryl heteroaryl group can be optionally substituted with an aryl or heteroaryl group[[.]];

R₆ is aryl, heteroaryl[[.]], arylsulfonyl, heteroarylsulfonyl, -C(=S)-NH-aryl, -C(=S)-NH-arylcarbonyl, -C(=S)-NH-heteroarylcarbonyl, -C(=S)-NH-alkylene-R₂₁, -C(=O)-NHaryl, -C(=O)-NH-arylcarbonyl, -C(=O)-NH-heteroarylcarbonyl[[.]] or -C(=O)-NH-alkylene-R₂₁ where R₂₁ is carboxy, alkoxy carbonyl, aryl, heteroaryl, heterocycloalkyl, arylaminocarbonyl, cycloalkylaminocarbonyl[[.]] or a saturated hydrocarbon fused ring system optionally having an aryl ring fused thereto, said ring system being optionally substituted with up to three alkyl groups on the alkyl or aryl rings thereof;

wherein any of said R₆ groups can be optionally substituted with up to 3 groups selected from NR₁₅R₁₆, alkyl, hydroxy, halogen, aryl, alkoxy, trihaloalkoxy, arylalkyloxy, NO₂, -SH, -S-alkyl, heteroarylcarbonyl, heteroaryl, alkylheteroaryl[[.]] or a moiety of the formula -OC₂CH₂-O- attached to adjacent atoms of said R₆ group;

_____ R₇ is heteroaryl or heterocycloalkyl;

_____ R₈ is aryl;

_____ R₉ and R₁₀ are each independently alkylene having from 1 to about 20 carbons;

_____ X is -N(R₁₂)-, -C(R₁₃)(R₁₄)- or O;

_____ R₁₁ is H, heterocycloalkyl, heteroaryl or alkoxy, wherein said heterocycloalkyl, heteroaryl or alkoxy group can be optionally substituted with up to four groups independently selected from halogen, amino, trihaloalkyl, alkoxy carbonyl, and CN;

_____ R₁₂ is H or C₁-C₆ alkyl; and

_____ R₁₃ and R₁₄ are each independently H or C₁-C₆ alkyl,

_____ R₁₅ is H, halogen, C₁₋₁₂ alkyl, methylcarbonyl, heterocycloalkyl, arylsulfonyl, heteroarylalkyl, aminoalkyl, arylcarbonyl, branched [[and]] or straight chain polyaminoalkyl[[.]] or a group of the formula CH₂(CHOH)₄CH₂OH, wherein said methylcarbonyl, heterocycloalkyl, arylsulfonyl, heteroarylalkyl, aminoalkyl, arylcarbonyl[[.]] and branched [[and]] or straight chain polyaminoalkyl groups can be substituted by up to 3 OH groups;

_____ R₁₆ is H, halogen, or C₁-C₆ alkyl;

or R₁₅ and R₁₆ together with the nitrogen atom to which they are attached can form a succinimido or phthalimido group or a fused ring derivative thereof, wherein said

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succinimido or phthalimido group or fused ring derivative thereof can be optionally substituted by up to three substituents independently selected from NO_2 and halogen, or a group of Formula I at position R_1 thereof;

or R_{15} and R_{16} together with the nitrogen atom to which they are attached can form a group-radical of a compound of Formula I wherein said radical nitrogen atom is Q_4R^1 thereof [;].

2.(Canceled)

3.(Previously presented) The compound of claim 1 wherein R_3 and R_4 are each independently halogen, amino, NO_2 , CN, C_{1-6} alkoxy or C_{1-6} alkyl optionally substituted with up to 3 halogen atoms.

4.(Previously presented) The compound of claim 1 wherein R_3 and R_4 are each independently halogen, amino, or NO_2 .

5.(Previously presented) The compound of claim 1 wherein R_3 and R_4 are each independently halogen.

6.(Previously presented) The compound of claim 1 wherein R_3 and R_4 are each chlorine.

7 .(Previously presented) The compound of claim 1 wherein R_1 is alkyl substituted with alkoxycarbonyl, alkyl substituted with carboxy, or aralkyl where said aryl portion of said aralkyl is phenyl, pyridinyl, or pyrimidinyl, and where said phenyl, pyridinyl, or pyrimidinyl portion of said arylalkyl group is optionally substituted with up to 5 substituents selected from halogen, monohaloalkyl, dihaloalkyl, trihaloalkyl, NO_2 , alkoxycarbonyl, and alkyl.

8.(Previously presented) The compound of claim 6 wherein R_1 is alkyl substituted with alkoxycarbonyl, alkyl substituted with carboxy, or aralkyl where said aryl portion of said aralkyl is phenyl, pyridinyl, or pyrimidinyl, and where said phenyl, pyridinyl, or pyrimidinyl portion of

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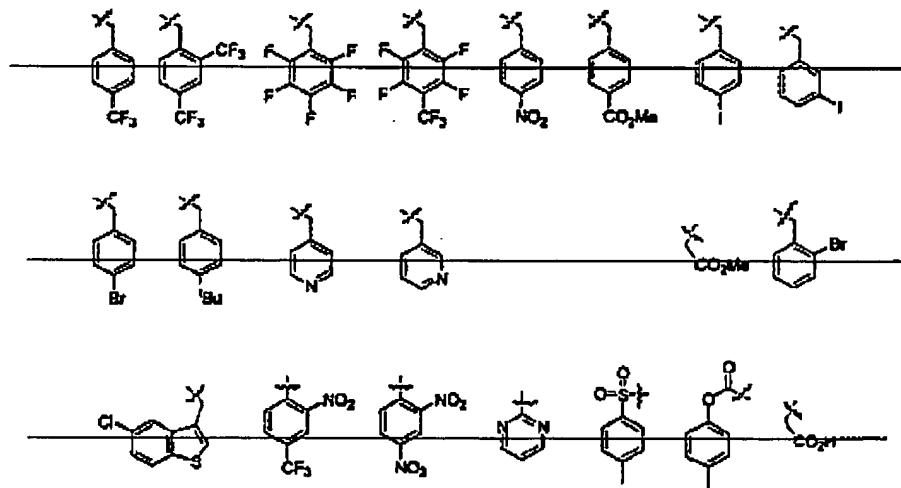
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said arylalkyl group is optionally substituted with up to 5 substituents selected from halogen, monohaloalkyl, dihaloalkyl, trihaloalkyl, NO₂, alkoxy carbonyl, and alkyl.

9.(Original) The compound of claim 7 wherein said phenyl, pyridinyl, or pyrimidinyl portion of said arylalkyl group is optionally substituted with up to 5 substituents selected from CF₃, F, Cl, NO₂, COOCH₃, I, Br, and t-butyl.

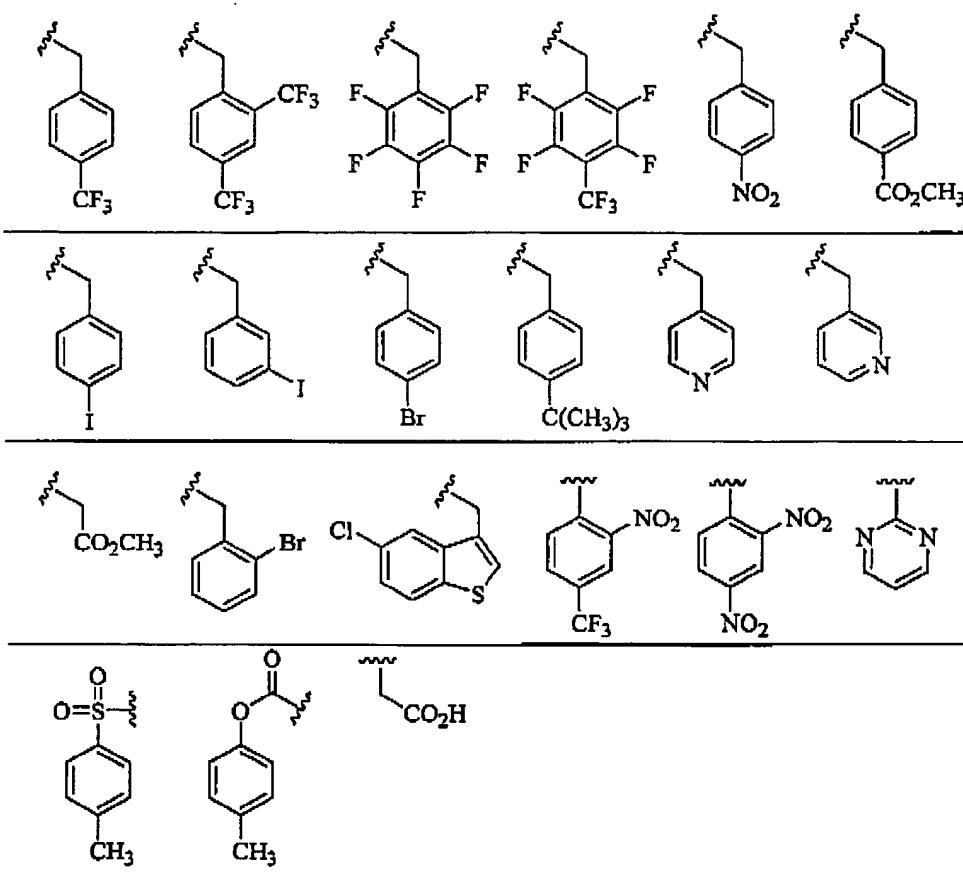
10.(Original) The compound of claim 8 wherein said phenyl, pyridinyl, or pyrimidinyl portion of said arylalkyl group is optionally substituted with up to 5 substituents selected from CF₃, F, Cl, NO₂, COOCH₃, I, Br, and t-butyl.

11.(Currently amended) The compound of claim 1 wherein said R₁ is selected from the radicals consisting of:



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12.(Previously presented) The compound of claim 1 wherein R₁ is alkyl substituted with -C(=O)-R₅.

13.(Currently amended) The compound of claim 12 wherein R₅ is -NHNHR₆[[,]] or -NHN=CH-R₆.

14.(Original) The compound of claim 13 wherein R₅ is -NHNHR₆.

15.(Original) The compound of claim 13 wherein R₅ is -NHN=CH-R₆.

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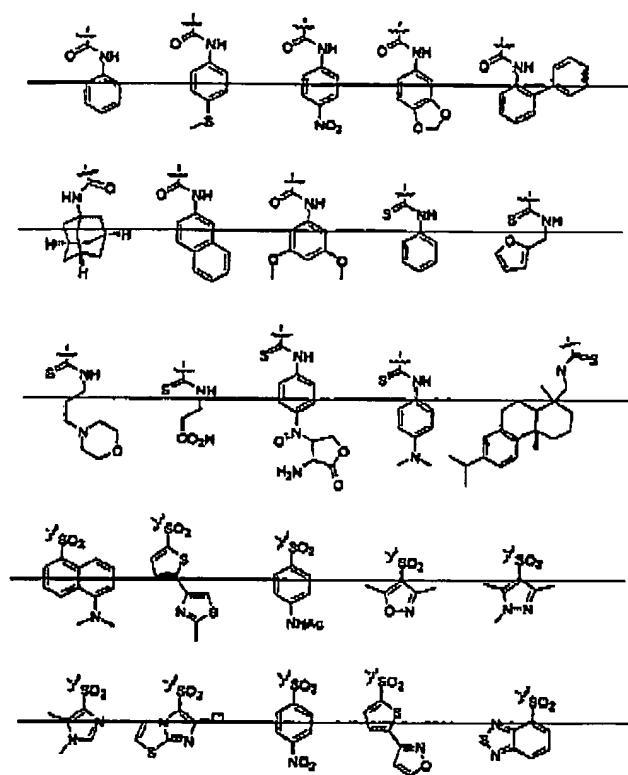
16.(Currently amended) The compound of claim 14 wherein R₆ is -C(=O)-NH-aryl, -C(=O)-NHcycloalkyl, -C(=S)-NH-aryl, arylsulfonyl, heteroarylsulfonyl, heterocycloalkyl, arylaminocarbonyl, cycloalkylaminocarbonyl, -C(=S)-NH-alkylene-R₂₁ where R₂₁ is heteroaryl or heterocycloaryl, or a saturated hydrocarbon fused ring system optionally having an aryl ring fused thereto, said ring system being optionally substituted with up to three alkyl groups on the alkyl or aryl rings thereof, wherein any of said R₆ groups can be optionally substituted with up to 3 groups selected from NR₁₅R₁₆, NO₂, a moiety of formula -OC₂CH₂-O- attached to adjacent atoms of said R₆ group, aryl, C₁₋₆ alkoxy, carboxy, or C₁₋₆ trihaloalkoxy.

17.(Original) The compound of claim 15 wherein R₆ is aryl or heteroaryl optionally substituted with up to 3 groups selected from OH, C₁₋₆ alkoxy, NO₂, C₁₋₆ trihaloalkoxy, C₁₋₆ trihaloalkyl, aryl, arylalkyloxy, and a moiety of formula -OC₂CH₂-O- attached to adjacent atoms of said R₆ group.

18.(Currently amended) The compound of claim 14 wherein said R₆ is any of the radicals from the group consisting of:

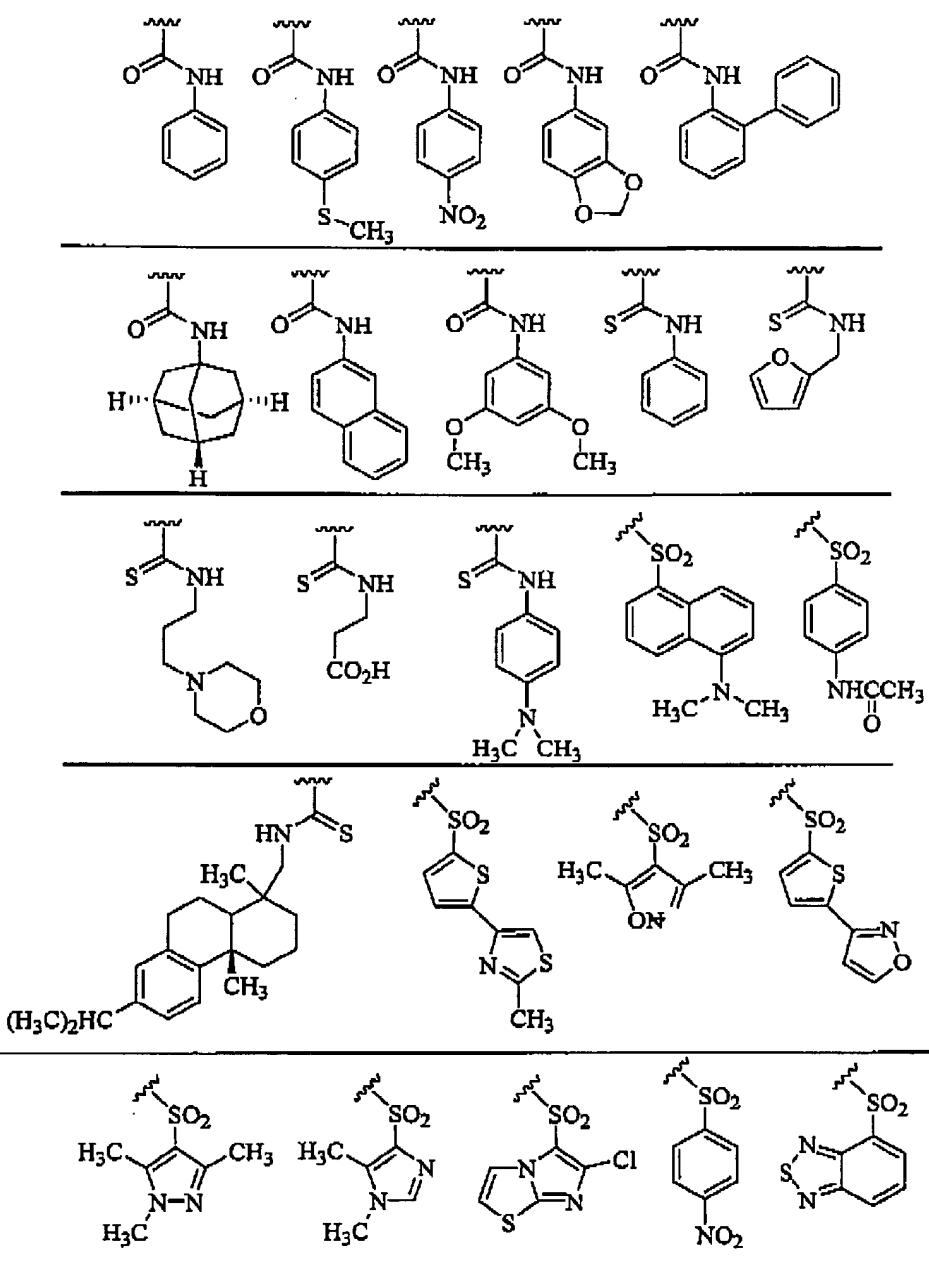
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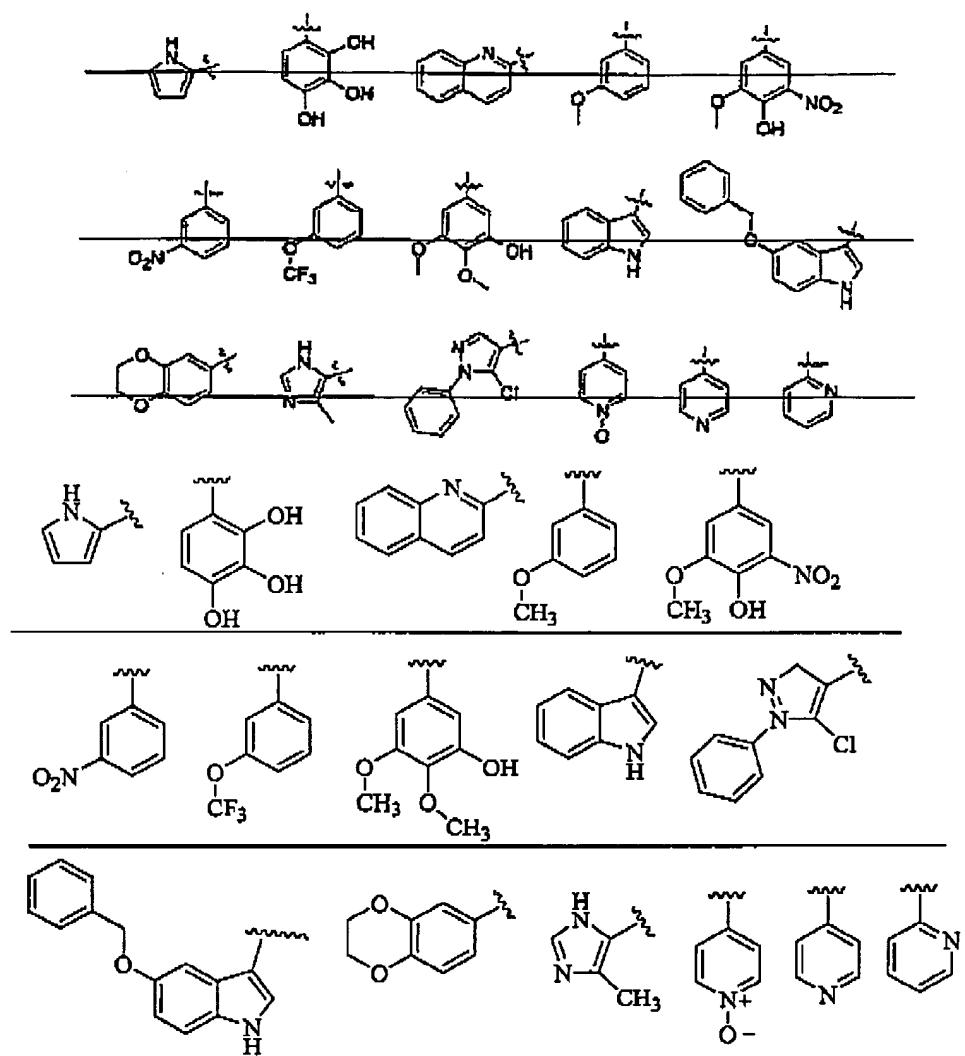
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19.(Currently amended): The compound of claim 15 wherein said R₆ is any of the radicals of the group consisting of:

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20.(Original) The compound of claim 6 wherein R₁ has the formula -(CH₂)_q-L₄ where q is 0 to 6 and L₄ is aryl, heteroaryl or heterocycloalkyl, arylsulfonamino, arylcarboxyamino or -S-heteroaryl, where each of said L₄ is optionally substituted with up to three substituents selected from halogen and NO₂.

21.(Currently amended) The compound of claim 20 wherein said L₄ is N-maleimidyl, N-succinimidyl, N-phthalimidyl, N-naphthalimidyl, N-pyromellitic diimidyl, phenylsulfonamidyl, phenylcarboxamidyl, N-benzopyrrolidinyl, benzimidazol-1-yl, benzimidazol-2-yl, 1,2,4-triazolyl-

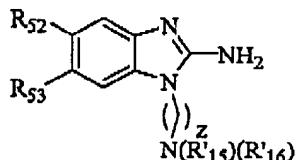
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4-yl, or purinyl, each of said L₄ groups being optionally substituted with 1 or 2 substituents selected from halogen, trihaloalkyl, trihaloalkoxy and NO₂.

22-62.(Canceled)

63.(Currently amended) A compound of formula:



wherein[[;]]:

_____ R₅₂ and R₅₃ are each independently selected from H, halogen, C₁-C₆ alkyl, trihaloalkyl, alkoxy carbonyl, alkoxy; [[or]]

_____ R'₁₅ and R'₁₆ together with the nitrogen atom to which they are attached can form a succinimido or phthalimido group or a fused ring derivative thereof, wherein said succinimido or phthalimido group or fused ring derivative thereof can be optionally substituted by up to three substituents independently selected from NO₂ and halogen; and

z is 1 to 6.

64.(Canceled)

65.(Previously presented) The compound of claim 63 wherein z is 2 or 3.

66.(Original) The compound of claim 65 wherein R₅₂ and R₅₃ are each independently H, C₁-₆ alkyl, alkoxy optionally substituted with dialkylamino, or alkylamino.

67.(Original) The compound of claim 66 wherein R₅₂ is H.

68.(Original) The compound of claim 67 wherein R₅₃ is methyl, methoxy, alkoxy optionally substituted with dialkylamino, or alkylamino.

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69.(Original) The compound of claim 67 wherein R₅₃ is OCH₃ or O(CH₂)₃N(CH₃)₂.

70.(Original) The compound of claim 66 wherein R₅₃ is H.

71.(Original) The compound of claim 70 wherein R₅₂ is methyl, methoxy, alkoxy optionally substituted with dialkylamino, or alkylamino.

72.(Original) The compound of claim 70 wherein R₅₂ is OCH₃ or O(CH₂)₃N(CH₃)₂.

73-106.(Canceled)